



# INFORMATION DISCLOSURE CITATION WITH DOCUMENT COPIES

Submitted by:

 OTT A. MCBAIN  
 elphi Technologies, Inc.,

Reg. No. 37181

 Atty. Docket No.  
 DP-306711 CIP1

 Serial No.  
 10/616,490

 Applicant  
 Van Steenkiste et al.

 Filing Date  
 July 9, 2003

 Group  
 1762

## U.S. PATENT DOCUMENTS

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
VB	2,861,900	11/25/1958	Smith, et al.	—	—	—
VB	3,100,724	08/14/1964	Rocheville	—	—	—
VB	3,876,456	04/08/1975	Ford, et al	—	—	—
VB	3,993,411	11/23/1976	Babcock, et al.	—	—	—
VB	3,996,398	12/1976	Manfredi	—	—	—
VB	4,263,335	04/21/1981	Wagner, et al.	—	—	—
VB	4,416,421	11/22/1983	Browning, et al.	—	—	—
VB	4,606,495	08/19/1986	Stewart, Jr., et al.	—	—	—

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Document Number	Date	Country	Class	Subclass	Translation Yes   No
VB 03009934	02/06/2003	WO	—	—	Yes
VB 04180770	06/26/1992	JP	—	—	Abstract Only
VB 04243524	08/31/1992	JP	—	—	Abstract Only

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

VB	Van Steenkiste, et al; Kinetic Spray Coatings; in Surface & Coatings Technology III; 1999, pp62-71
VB	Liu, et al; Recent Development In the Fabrication of Metal Matrix-Particulate Composites Using Powder Metallurgy Techniques, in Journal of Material Science; 1994; pp 1999-2007; National University of Singapore, Japan
VB	Papyrin; The Cold Gas-Dynamic Spraying Method A New Method For Coatings Deposition Promises A New Generation of Technologies, Novosibirsk, Russia <i>no date</i>
VB	McCune, et al; Characterization of Copper And Steel Coatings Made By The Cold Gas-Dynamic Spray Method; National Thermal Spray Conference <i>no date</i>

 Examiner *H. Bareford* | Date Considered *6/9/05*

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VB	4,939,022	07/03/1990	Palanisamy	—	—	—
VB	5,187,021	02/16/1993	Vydra, et al	—	—	—
VB	5,217,746	06/1993	Lenling, et al	—	—	—
VB	5,271,965	12/21/1993	Browning	—	—	—
VB	5,302,414	04/12/1994	Alkhimov, et al	—	—	—
VB	5,308,463	05/03/1994	Hoffmann, et al	—	—	—
VB	5,340,015	08/23/1994	Hira, et al.	—	—	—

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VB	42 36 911	12-23-1993	Germany	—	—	No
VB	55031161	03-05-1980	Japan	—	—	Abstract Only
VB	61249541	11-06-1986	Japan	—	—	Abstract Only

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VB	Alkhimov, et al; A Method of "Cold" Gas-Dynamic Deposition; Sov. Phys. Kokl. 36 (12; December 1990; pp. 1047-1049
VB	Dykuizen, et al; Impact of High Velocity Cold Spray Particles; in Journal of Thermal Spray Technology 8(4); 1999 pp. 559-564
VB	Swartz, et al; Thermal Resistance At Interfaces; Appl. Phys. Lett., Vol. 51, No 26, 28; December 1987; pp 2201-2201.
VB	Davis, et al; Thermal Conductivity of Metal-Matrix Composites; J. Appl. Phys. 77(10), May 15, 1995; pp.4494-4960

Examiner K. Barford | Date Considered 6/9/05

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VB	5,362,523	11/1994	Gorynin, et al.	—	—	—
VB	5,395,679	03/07/1995	Myers, et al.	—	—	—
	<del>5,242,101</del>	<del>06/13/1995</del>	<del>Atkins, et al.</del>	<del>—</del>	<del>—</del>	<del>—</del>
VB	5,464,146	11/07/1995	Zalvzec, et al.	—	—	—
VB	5,476,725	12/19/1995	Papich, et al.	—	—	—
VB	5,525,570	06/11/1996	Chakraborty, et al.	—	—	—
VB	5,527,627	06/18/1996	Lautzenhisser, et al.	—	—	—
VB	5,585,574	12/17/1999	Sugihara, et al.	—	—	—

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	Document Number	Date	Country	Class	Subclass	Translation Yes   No
VB	98/22639	05/1998	WO	—	—	
VB	199 59 515	06/13/2001	Germany	—	—	No
VB	100 37 212	01/17/2002	Germany	—	—	No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

VB	Stoner, et al; Measurements of the Kapitza Conductance between Diamond and Several Metals; Physical Review Letters, Volume 68, Number 10, March 9, 1992; pp. 1563-1566
VB	Stoner, et al; Kapitza conductance and heat flow between solids at temperatures from 50 to 300k; Physical review B, Volume 48, Number 22, December 1, 1993-II; pp. 16374; 16387.
VB	Johnson, et al; Diamond/Al metal matrix composites formed by the pressureless metal infiltration process; J. Mater. Res., Vol. 8, No. 5, May 1993; pp. 1169-1173.
VB	Rajan, et al; Reinforcement coatings and interfaces in Aluminum Metal Matrix Composites; pp. 3491-3503. <i>no date</i>

Examiner *H. Boweford* | Date Considered *6/9/05*

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1/B	5,593,740	01/14/1997	Strumbon, et al.	—	—	—
1/B	5,648,123	07/15/1997	Kuhn, et al.	—	—	—
1/B	5,683,615	11/04/1997	Munoz	—	—	—
1/B	5,795,626	08/18/1998	Grabel, et al.	—	—	—
1/B	5,854,966	12/29/1998	Kampe, et al.	—	—	—
1/B	5,875,626	03/02/1999	Singer, et al. Cromartie	—	—	—
1/B	5,887,335	03/30/1999	Garshells	—	—	—
1/B	5,889,215	03/30/1997	Kilmartin, et al.	—	—	—

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1/B	101 26 100	12/05/2002	Germany	—	—	No
1/B	1 160 348	12/05/2001	EP	—	—	Yes
1/B	02/052064	01/04/2002	WIPO	—	—	Abstract Only

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1/B	LEC Manufacturing And Engineering Components; Lanxide Electronic Components, Inc.	no date
1/B	Dykhuizen, et al.; Gas Dynamic Principles of Cold Spray; Journal of Thermal Spray Technology; 06-98; pp. 205-212.	
1/B	McCune, et al; An Exploration of the Cold Gas-Dynamic Spray Method For Several Materials Systems	no date
1/B	Ibrahim, et al; Particulate Reinforced Matrix Composites – A Review; Journal of Materials science 26; pp. 1137-1156.	no date

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103	5,894,054	04/13/1999	Paruchuri, et al.	—	—	—
103	5,907,761	05/25/1999	Tohma, et al.	—	—	—
103	5,952,056	09/14/1999	Jordan, et al.	—	—	—
103	5,965,193	10/12/1999	Ning, et al.	—	—	—
103	5,989,310	11/23/1999	Chu, et al.	—	—	—
103	6,033,622	03/07/2000	Maruyama	—	—	—
103	6,051,045	04/18/2000	Narula, et al.	—	—	—
103	6,051,277	04/18/2000	Claussen, et al.	—	—	—

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103	I.J. Garshelis, et al; A Magnetoelastic Torque Transducer Utilizing a Ring Divided Into Two Oppositely Polarized Circumferential Regions; MMM 1995; Paper No. BB-08
103	I.J. Garshelis, et al; Development of a Non-Contact Torque Transducer For Electric Power Steering Systems; SAE Paper No. 920707; 1992; pp. 173-182.
103	Boley, et al; The Effects of Heat Treatment on the Magnetic Behavior of Rng - Type Magnetoelastic Torque Sensors; Proceedings of Sicon '01; November 2001.
103	J.E. Snyder, et al; Low Coercivity Magnetostrictive Material With Giant Piezomagnetic d33, Abstract Submitted for the MAR 99 Meeting of the American Physical Society.
	<del>McCune, et al; An Exploration of the Cold Gas Dynamic Spray Method; Proc. Nat. Thermal Spray Conf. ASM 9/1995.</del>
103	Pavel Ripka, et al; Pulse Excitation of Micro-Fluxgate Sensors, IEEE Transactions on Magnetics, Vol. 37, No. 4, July 2001, pp. 1998-2000.

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VB	6,074,737	06/13/2000	Jordan, et al	—	—	—
VB	6,119,667	09/19/2000	Boyer, et al.	—	—	—
VB	6,129,948	10/10/2000	Plummet, et al.	—	—	—
VB	6,139,913	10/31/2000	Van Steenkiste, et al	—	—	—
VB	6,149,736	11/21/2000	Sukigara, et al.	—	—	—
VB	6,159,430	12/12/2000	Foster	—	—	—
VB	6,189,663	02/20/2001	Smith, et al.	—	—	—
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- VB | Trifon M. Liakopoulos, et al; Ultrahigh Resolution DC Magnetic Field Measurements Using Microfabricated Fluxgate Sensor Chips, University of Cincinnati, Ohio, Center For Microelectronic Sensors and MEMS, Dept. of ECECS pp. 630-631. *no date*
- VB | Derac Son, A New Type of Fluxgate Magnetometer Using Apparent Coercive Field Strength Measurement, IEEE Transactions on Magnetics, Vol. 25, No. 5, September 1989, pp.3420-3422
- VB | O. Dezaury, et al; Printed Circuit Board Integrated Fluxgate Sensor, Elsevier Science S.A. (2000) Sensors and Actuators, pp. 200-203.
- VB | Moreland, Fluxgate Magnetometer, Carl W. Moreland, 1999-2000, pp. 1-9.
- VB | Ripka, et al; Symmetrical Core Improves Micro-Fluxgate Sensors, Sensors and Actuators, Version 1, August 25, 2000, pp. 1-9.
- VB | Hoton How, et al; Development of High-Sensitivity Fluxgate Magnetometer Using Single-Crystal Yttrium Iron Garnet Film as the Core Material, ElectroMagnetic Applications, Inc. *No date*

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VB	6,289,748	09/18/2001	Lin, et al.	—	—	—
VB	6,338,827	01/15/2002	Nelson, et al.	—	—	—
VB	6,402,050	06/11/2002	Subramanian, et al. Kashirina et al.	—	—	—
	6,422,039	08/27/2002	Schreiber	—	—	—
VB	6,422,360	07/26/2002	Oliver, et al.	—	—	—
VB	6,465,039	10/15/2002	Pinkerton, et al.	—	—	—
VB	6,485,852	11/26/2002	Miller, et al.	—	—	—

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- VB | Hendriksen, et al; Digital Detection and Feedback Fluxgate Magnetometer, Meas. Sci. Technol. 7 (1996) pp. 897-903.
- VB | Cetek 930580 Compass Sensor, Specifications, June 1997
- VB | Geyger, Basic Principles Characteristics and Applications, Magnetic Amplifier Circuits, 1954, pp. 219-232.

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VB	6,537,507	03/23/2003	Nelson, et al.	—	—	—
VB	6,623,704	09/23/2003	Roth	—	—	—
VB	6,623,796	09/23/2003	Van Steenkiste, et al.	—	—	—
VB	6,624,113	09/23/2003	LaBarge, et al.	—	—	—
VB	2002/0071906	06/2002	Rusch	—	—	—
VB	2002/0102360	08/01/2002	Subramanian, et al.	—	—	—
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